

National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices

For:

Bench & Counter Scale
Digital Electronic
Model: Navigator Series
 n_{\max} : 6100 (See Page 2)
Capacity: 210 g to 6100 g (See Page 2)
Platform: (See Page 2)

Accuracy Class: III

Submitted by:

Ohaus Corporation
29 Hanover Road
Florham Park, NJ 07932
Tel: (973) 377-9000
Fax: (973) 593-0359
Contact: Robert Hansen

Standard Features and Options

Automatic zero setting mechanism (AZSM)
Initial zero setting mechanism (IZSM)
Semi-automatic zero
Tare
Liquid crystal display (LCD)
“The Counting Feature is Not Legal for Trade” is labeled on the front of the scale

Weighing Units:

carat	milligram	pound
grain	newton	troy ounce
gram	ounce	
kilogram	pennyweight	

Options:

Semi-automatic calibration (internal calibration mass)
RS232 interface capability
Print capability
Remote display

Temperature Range: 10 °C to 40 °C (50 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, “Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices.” Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: January 24, 2000

Gilbert M. Ugiansky, Ph.D.
Chief, Office of Weights and Measures
Issue Date: March 16, 2000

Note: The National Institute of Standards and Technology does not “approve,” “recommend,” or “endorse” any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product by the Institute. (See NTEP Policy and Procedures.)

Ohaus Corporation
Bench & Counter Scale
Model: Navigator Series

Model	Platform	Capacity	e _{min}	n _{max}
N02122 N12122 w/internal calibration	4.75" (12 cm)	210 g 6.752 ozt 135.05 dwt	0.05 g 0.002 ozt 0.05 dwt	4200
N06112 N16112 w/internal calibration	4.75" (12 cm)	610 g 19.61 ozt 392.2 dwt 3050 ct	0.1 g 0.005 ozt 0.1 dwt 0.5 ct	6100
N0A212 N1A212 w/internal calibration	5.5 x 6" (14 x 15.2 cm)	1210 g 38.9 ozt 778 dwt 6050 ct	0.2 g 0.01 ozt 0.2 dwt 1 ct	6050
N0F1A2 N1F1A2 w/internal calibration NDF1A2	5.5 x 6" (14 x 15.2 cm)	6100 g 215.15 oz 13.45 lb	1 g 0.05 oz 0.005 lb	6100

Application: For use as a general purpose weighing, retail jewelry, and commercial grain test scale.

Identification: The required information is on an adhesive badge attached to the left side of the scale.

Sealing: The scale may be sealed with a wire security seal through a tab on a metal plate and drilled head bolt. This prevents undetected access to the calibration switch inside. The sealing plate and bolt are located on the bottom of the scale. The calibration switch must be in the ON position before sealing the device. To verify the position of the calibration switch, the message "LFT ON" is displayed during power up.

Test Conditions: The emphasis of the evaluation was on the device design, marking requirements, performance, and compliance with influence factors. For the purpose of the evaluation, three models of the series were tested: Model Navigator N02122 (210 g x 0.05 g), N0F1A2 (6 kg x 1 g), and N1F1A2 (6 kg x 1 g with internal calibration). Several increasing/decreasing load and shift tests were conducted. The scales were tested over a temperature range of 10 °C to 40 °C (50 °F to 104 °F). A load of approximately one-half capacity was applied to the scales at least 100 000 times. The scales were tested periodically over a period of time. Tests were also conducted using 100 VAC and 130 VAC power supplies.

The results of the evaluation indicate the devices comply with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 2000 Edition

Tested By: A. McCoy (OH)